NATURAL RESOURCES CONSERVATION SERVICE CONSERVATION PRACTICE STANDARD

UPLAND WILDLIFE HABITAT MANAGEMENT

(Acre) Code 645

DEFINITION

Creating, restoring, maintaining or enhancing areas to provide food, cover, and water for upland wildlife and species, which use upland habitat for a portion of their life cycle.

PURPOSE

- Provide a variety of food for the desired kinds of wildlife species.
- Provide a variety of cover types for the desired wildlife species requirements, examples include nesting, loafing, resting, escape, travel lanes, and avoidance of threats.
- Provide drinking water for the desired kinds of wildlife species.
- Arrange habitat elements (vegetation, water) in proper amounts and locations to benefit desired species.
- Manage the wildlife habitat to achieve a viable wildlife population within the species home range.

CONDITIONS WHERE PRACTICE APPLIES

This management practice may be applied on upland (i.e., non-wetland) areas where habitat will be actively managed for nesting, feeding, resting, and/or protective cover and travel corridors for upland wildlife, such as songbirds, and game birds. This practice does <u>not</u> apply to preserving natural areas, such as shrub

lands, forests, and riparian corridors, where no active management or periodic maintenance is planned.

CRITERIA

General Criteria Applicable to all Purposes

Upland wildlife habitat management shall consist primarily of managing vegetation to provide the quantity, quality, and distribution of upland habitat elements that will best meet the land user's objectives.

The following elements shall be considered when assessing wildlife habitat. Not all elements may apply to every habitat type.

- 1. Food types of food, quantity, quality, distribution, and seasonal availability.
- 2. Cover types of cover (nesting and escape), quantity, quality, and distribution.
- 3. Water quantity, quality, accessibility, and seasonal availability.
- 4. Interspersion and Connectedness distance and connections to food, cover, and water.
- 5. Breeding habitats
- 6. Threats

Habitat development and management shall be based on the results of a habitat appraisal. The appraisal shall be used to determine a quality rating or Habitat Suitability Index (HSI) for an individual field, land unit, or ecological community. See Supplement for Wildlife Habitat Evaluation.

Conservation practice standards are reviewed periodically, and updated if needed. To obtain the current version of this standard, contact the Natural Resources Conservation Service.

If an evaluation determines that the current habitat quality is less than 0.5 (on a scale of 0 to 1), recommendations shall be made to improve the existing habitat so that the planned (future) condition will have a quality rating of 0.5 or more.

If an evaluation determines that the current condition is equal to or greater than 0.5, recommendations shall be made to maintain the existing habitat in its present condition, or improve it toward optimum conditions.

Where habitat is lacking or less than optimum, provide nesting, feeding, resting, and/or protective cover, travel corridors, and water sources as needed, according to Caribbean Area conservation practice standards. These standards include, but are not limited to, those listed as follows:

- 1. Conservation Cover, Code 327
- 2. Conservation Cropping Sequence, Code 328
- 3. Field Border, Code 386
- 4. Filter Strip, Code 393
- 5. Forage Harvest Management, Code 511
- 6. Hedgerow Planting, Code 422
- 7. Pasture and Hayland Planting, Code 512
- 8. Pond, Code 378
- 9. Residue Management, Codes 329A-C and Code 344
- 10. Riparian Forest Buffer, Code 391
- 11. Spring Development, Code 574
- 12. Tree Planting, Code 612
- 13. Watering Facility, Code 614
- 14. Wetland Restoration, Code 657
- 15. Woodland Improved Harvesting, Code 654

Vegetative manipulations to restore plant diversity and provide for wildlife habitat shall be

accomplished by mowing, light disking, selective cutting, prescribed grazing, planting of annual food plots, or a combination of these methods, as appropriate.

All areas managed for upland wildlife habitat shall be protected, insofar as practicable, from the adverse effects of agricultural, commercial, and residential activities. Livestock and other domestic animals shall be managed or excluded as appropriate from designated habitat areas.

Management and maintenance activities shall be conducted at times when there will be minimal disturbance of wildlife and their habitat.

Contamination by pesticides, herbicides, and other chemicals shall be avoided. If weed control is necessary, preference shall be given to mechanical rather than chemical methods, whenever feasible. Frequent monitoring of the habitat area and adjacent areas should minimize the need to control invasive plant species. Noxious weeds shall be controlled as required by state law.

Refer to Tables 1-5 for plants and birds inforation.

CONSIDERATIONS

The following items must be considered when managing an area for upland wildlife:

- 1. Purpose of the project, including identification of the wildlife species or groups of species to be supported and the habitat needs that can be met on the managed property.
- 2. Surrounding landscape and its relationship to the project location.
- 3. Site conditions such as soils, available water sources, water quality and quantity, and existing vegetation.
- 4. The feasibility of providing food, cover, and water for the desired wildlife species at the appropriate time of year.
- 5. The positive and negative impacts that target specie and other upland wildlife may

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have on the successful management of the site as well as on surrounding areas. Also consider the potential for attracting nuisance wildlife into an area.

- 6. Use this practice to promote the conservation of declining species, including threatened and endangered species.
- 7. Create large blocks of habitat versus increased edge, which leads to predation and parasitism by some species.
- 8. Consider habitat linkages and habitat corridors when developing upland wildlife habitat.

PLANS AND SPECIFICATIONS

Plans and specifications for upland wildlife habitat management shall be prepared in accordance with the previously listed criteria. Plans and specifications shall contain sufficient detail concerning management of habitat elements to ensure successful implementation of this practice.

The minimum data and documentation to be recorded in the case file:

- 1. Identify the wildlife species desired and the type of habitat to be managed.
- 2. Provide the field location of the project and acres, and assistance notes.
- 3. Note the location of the managed habitat on the conservation plan map.

OPERATION AND MAINTENANCE

Management and maintenance activities shall be conducted at times when there will be minimal disturbance of wildlife and their habitat. Activities will be scheduled to avoid periods when upland wildlife are nesting, and or allow the establishment, development, and management of upland vegetation for the intended purpose.

At a minimum, the following components shall be addressed in the O&M plan, as applicable:

Vegetation

Inspection to determine whether the desired vegetation is present in suitable quantity, quality, and distribution to meet the objectives of the project; the extent of management needed to maintain the desired plant species; and time of year restrictions on mowing, and others as applicable.

Water Sources

Water availability and quality to meet objectives of the practice; required inspections to assess the integrity of the structure and determine whether it is functioning properly.

Nuisance Plants and Animals

Describe the extent to which plant and animal pest species, including noxious weeds, will need to be controlled.

Acceptable Uses

Describe the acceptable uses (e.g., haying, grazing, nature preserve, etc.) and time of year/frequency of use restrictions, if any.

Frequency of Inspections

At a minimum, require annual inspections of vegetative and structural components.

SUPPLEMENT

WILDLIFE HABITAT EVALUATION WORKSHEETS

Instructions

- 1. Select the appropriate worksheet for the habitat types (land use management system) on which one or more wildlife practices will be applied.
- Use one worksheet per management system, which may include one or more fields.
- Crop fields with the same crop rotation and management practices should be grouped together for habitat evaluation.
- Fields which are managed primarily as permanent hayland should be evaluated on a separate worksheet from fields managed primarily for pasture.
- 2. Evaluate the benchmark condition (existing conditions without the proposed wildlife practices) and the planned condition (with the proposed wildlife practices).
- Record the point score that most closely fits each item.
- Add up the points for the benchmark condition and the planned condition.
- Divide by the maximum possible score to get the benchmark and planned index values for the system.
- 3. If you are evaluating more than one system, record the results from each worksheet on the summary worksheet.
- Use the summary worksheet to calculate the net effect of the wildlife management plan (overall planned index minus the overall benchmark index.

WILDLIFE HABITAT EVALUATION WORKSHEET CROPLAND

Client	Tract No.				
Date	Field No.				
Evaluated by	Acres				
CROPLAND HABITAT INDEX	POINTS	BENCHMARK	PLANNED		
Crop Residue Management					
Residue >50%	10				
Residue 30-50%	7				
Residue 10-29%	5				
Residue < 10%; fall cover crop	3				
Residue <10%; no fall cover crop	1				
Crop Rotation					
Row crop or small grain, with hay	10				
Row crop-small grain	7				
Continuous row crops (no small grain or hay)	3				
Crop Management					
> 10% unharvested crop	10				
1-10% unharvested crop	7				
Total crop harvested, with weeds present	4				
Total crop harvested; no weeds present	1				
Percent of field perimeter with shrubs and/or grasses fiel border (min. 20' wide)	d				
of not mowed					
75-100%	20				
50-74%	15				
25-49%	10				
<25%, <u>or</u> no border	1				
(A) Total Cropland Habitat Points (50 maximum)					
(B) Cropland Habitat Index (Total Points/50)					

WILDLIFE HABITAT EVALUATION WORKSHEET GRASSLAND OR HAYLAND

Client T	ract No			
Date F	Field No			
Evaluated by A	cres			
GRASSLAND/HAYLAND HABITAT INDEX		<u>POINTS</u>	BENCHMARK	PLANNED
Composition				
Mixture of 2 native grasses and 2 forbs		10		
Mixture of non-native grasses and forbs Single species native grass with no forbs and legumes		8 6		
Single species non-native grass with legumes and w/no for	rhs	4		
Viable seed producing introduced grass species with other		2		
Non viable seed producing introduced grass species (Pang grass)		1		
Mowing or haying management				
Mowed/cut every 90 days at least 8" height		10		
Mowed/cut every 90 days < 8" height Mowed/cut every 60 days and at least 8" height		7 5		
Mowed/cut every 60 days and < 8 " height		3		
Mowed/cut every 45 days, and <8" height		1		
Use by domestic animals or humans				
No or minimal disturbance; >95% cover		10		
Light grazing pressure, with min. grazing height 6"; 80 -	95% cover	8		
Moderate grazing pressure; 75 - 80% cover Heavy grazing pressure; <75% cover		6 2		
Frequent human disturbance (e.g., lawn)		1		
Percent of field perimeter with a field border (min. 20' wide)				
75-100%		20		
50-74		15		
25-49% < 25%, <u>or</u> no border		10 1		
(A) Total Grassland/Hayland Habitat Points (50 maximum)				
(B) Grassland/Hayland Habitat Index (Total Points/50)				

WILDLIFE HABITAT EVALUATION WORKSHEET FORESTLAND

Evaluated by	Client	Tract No.				
FORESTLAND HABITAT INDEX POINTS BENCHMARK PLANNED Livestock are excluded from forestland Yes No 0 Diversity > 7 tree species; several size classes present 3-6 species and/or only 1 size class present 1 species and only 1 size class present 2 species and only 1 size class present 3 t species and only 1 size class present 3 t species and only 1 size class present 1 species and only 1 size class present 3 t species and only 1 size class present 3 t species and only 1 size class present 1 species and only 1 size class present 3 t species and only 1 size class present 3 t species and only 1 size class present 1 species and species of the species of						
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(B) Forest Habitat Index (Total points/50)	(A) Total Forest Habitat Points (50 maximum)					
	(B) Forest Habitat Index (Total points/50)					

WILDLIFE HABITAT EVALUATION WORKSHEET RIPARIAN CORRIDOR

Client T	ract No			
RIPARIAN CORRIDOR HABITAT INDEX	<u>POINTS</u>	BENCHMARK	<u>PLANNEI</u>	
Condition of stream channel and banks				
Minimally disturbed: generally stable channel & banks;	10			
mostly natural conditions and natural vegetation. Moderately disturbed: some streambank erosion, and/or replacement of natural vegetation	5			
Significantly disturbed: severe bank erosion/gullies, streambanks poorly vegetated, streambanks armored, and/or stream recently channeled.	1			
Water quality				
Good: minimal pollution by sediment, nutrients, contaminants, etc.	10			
Fair: moderate sediment loading & turbidity during	5			
storm events; some algae during low flows.	1			
Poor: pollution by sediment, nutrients, contaminants are evident (e.g., heavy sedimentation, excessive algae, chemical spills).	1			
Plant composition in the riparian buffer				
Predominantly trees and/or shrubs.	10			
Predominantly perennial herbaceous plants.	5 ound. 1			
Predominantly row crops, other annual plants, or bare gro	iulia. 1			
Management of the riparian buffer				
Generally undisturbed by humans or domestic animals.	10			
Not mowed/disturbed. Moyed/disturbed ecossionally	7 4			
Mowed/disturbed occasionally. Mowed/disturbed frequently, or no permanently vegetated	·			
Buffer width				
\geq 35 feet wide	10			
26- 35 feet wide.	7			
11- 25 feet wide.10 feet wide, or no permanently vegetated buffer.	4 1			
	1			
(A) Total Riparian Corridor Habitat Points (50 maximum)				
(B) Riparian Corridor Habitat Index (Total points/50)				

WILDLIFE HABITAT EVALUATION WORKSHEET SUMMARY

Client	Tract No.
Date	Field No
Evaluated by	Acres

			BENCHMA	RK (BEFORE)	CONDITION	PLANNE	ED (AFTER) CO	NDITION
(a) HABITAT TYPE (LAND USE)	(b) FIELD NO.	(c) ACRES	(d) HABITAT INDEX	(e) WEIGHTED INDEX (Column c X Column d)	(f) OVERALL INDEX (Total Column e / Total Column c)	(g) HABITAT INDEX	(h) WEIGHTED INDEX (Column c X Column g)	(i) OVERALL INDEX (Total Column h / Total Column c)
TOTALS								

WILDLIFE HABITAT INDEX
NET EFFECT OF PLAN

Overall Index Planned (Column i)	- Overall Index Benchmark (Column f)	= Net Effect of Plan
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Table 1. Vegetation Producing Food, Shelter, Cover or Breading for Wildlife

We also and book a consider a		
Woody and herbaceous vines		0 : 1:5
Spanish name	English name	Scientific name
Bejuco de berac	West Indian milkberry	Chiococca alba (L.) Hitcho.
Bejuco de paloma (Bejuco de		
guajanilla)	Bread and cheese	Paullinia pinnata L.
Bejuco de playa	Bay hops	Ipomoea pes-caprae
Bejuco de puerco	Darkeye morning glory	Ipomoea tiliacea
Cohombro (Pepinillo)	Cherkin, Cucumber	Cucumis anguria L.
Conchitas	Butterfly pea	Clitoria ternatea
Cundeamor	Wild balsam apple balsampear	Momordica charantia L.
Flor de conchitas	Centro, butterfly-pea	Centrosema pubescens
Parcha	Passion fruit	Passiflora edulis Sims.
Tagua-tagua (Flor de pasión		
silvestre)	Love-in-a-mist	Passiflora foetida L.
	Purple bushbean	Macroptilium atropurpureum
Forbs and runners		
Blero	Spleen amaranth	Amaranthus dubius Mart.
Botón de cadete (molinillo)	Lion's ear	Leonotis nepetifolia (L.) R. Br.
Cardo santo		Mexican pricklypoppy
Cotorrera de agua	Slender	Fourspike heliotrope
Crotalaria	Sunn hemp	Crotalaria juncea
Guineo	Banana	Musa sapientum L.
Habichuela parada	Wild bush bean	Macroptilum lathyroides
Leche vana (acerca amor)	Mexican fireplant	Euphorbia heterophylla (L.)
Lechecillo	Pillpod sandmat	Chamaesyce hirta (L.) Millsp
Llantén	Greater plantain	Plantago major (L)
Matagallina (yerba mora)	Black nightshade	Solanum americanum Mill
Moriviví bobo (Yerba rosario)	Shyleaf	Aeschynomene americana L.
Verdolaga	Little hogweed	Portulaca oleracea
Verdolaga de abrojo	Big caltrop	Kallstroemia maxima (L.)
Verdolaguilla (Verdolaga francesa)		Talinum triangulare (Jacq.)
Vinagrillo (Trebolillo)	Yellow sorrel	Oxalis corniculata (L.)
Yerba de hicotea	Denseflower knotweed	Polygonum glabrum Willd.in L
Yerba de zanjas	Ditch-grass	Ruppia maritima L.
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Grass and grass-like		
Spanish name	English name	Scientific name
Arrocillo	Barnyard grass	Echinochloa crus-galli (L.)
Arroz	Rice	Oryza sativa L.
Carrucillo (cortadora)		Olyra latifolia L.
Cerrillo (Matojo de burro)	Dropseed, smutgrass	Sporobolus indicus
Cohitre azul	Tahitian bridalveil	Gibasis geniculata (Jack)
Cohitre falso (carruzo)		Ichnanthus pallens
Coquí	Common goldstar	Hypoxis decumbens (L.)
Coquí blanco		Rhynchospora nervosa spp. Ciliata
Cortadora de altura	Forest saw-grass (razor grass)	Scleria secans L.
Grama colorada	Broadleaf carpetgrass	Axonopus compressus
Grama de costa (horquetilla)	Radiate fingergrass	Chloris radiata (L.) Sw
Junquito	Forked fimbry	Fimbristylis dichotoma (L.)
Maíz	Corn	Zea mays L
Malojillo	Para grass	Brachiaria mutica
Matojo blanco (cortadero)	Cortadero	Paspalum virgatum L.
Millo, Mijo	Broomcom	Sorghum vulgare
Pajón	Railroad- track grass	Dichanthium annulatum
Pata de gallina	Goosegrass	Eleusine indica (L.) Gaertn.
Pendejuelo	Crabgrass	Digitaria sanguinalis L. Scop.
Yerba bahía	Bahia grass	Paspalum notatum
Yerba Bermuda	Bermuda grass	Cynodon dactylon
Yerba brava (cortadera)	Cortadera	Paspalum millegrana Schrad.
Yerba Buffel	Buffel grass	Pennisetum ciliare
Yerba de Guinea	Guinea grass	Urochloa maxima
Vorbo ogincia	Crowfoot grass	Dootylootonium gogyntium (L.)
Yerba egipcia	Crowlool grass	Dactyloctenium aegyptium (L.)
Yerba Johnson	Johnson grass	Sorghum halepense

Shrub-like, shrubs and trees		
Spanish name	English name	Scientific name
Achiotillo		Alchornea latifolia Sw.
Adormidera (guayacanillo)	Yellow balsam	Croton flavens
Ají (ají picante)	Wild pepper	Capsicum frutescens L.
Algarroba	Locust tree	Hymenaea coubaril
Almácigo	Turpentine tree	Bursera simaruba
Almendrón	Bully-tree	Pouteria multiflora L.
Anón	Sugar apple	Annona squamosa L.
Bálsamo (Doña Julia Pata de pájaro)	Scarletbush	Hamelia patens (Jack)
Berenjena cimarrona	Turkey berry	Solanum torvum Sw.
Bretónica prieta	•	Melochia nodiflora Sw.
Bucayo enano (Bucayo sin espina, machete)	Erythrina	Erythrina berteroana Urban
Cabo de hacha (Tinacio)	Broomstick	Trichilia hirta
Cachimbo	Red cappel	Palicourea crocea (Sw.) R.&S.
Cadillo	Caesarweed	Urena lobata
Cadillo de perro	Sacramento Burrbark	Triumfetta semitriloba Jacq.
Café de La India (Mirto)	Orange jessamine	Murraya exotica (L.) Jack
Camasey blanco		Miconia prasina
Camasey de felpa (terciopelo)		Miconia racemosa Aubl. D.C.
Canela	Wild cinnamon	Canella winteriana
Capá blanco	Bastard stopper	Petitia domingensis Jacq.
Capá colorado (cerezo)	Smooth manjack	Cordia laevigata Lam.
Capá prieto		Cordia alliodora
Caracolillo		Trichilia pallida
Cariaquillo Santa María	Button or wild sage	Lantana involucrata L.
Cedro hembra	Cigar box cedar	Cedrela odorata
Ceiba	Silk-cotton tree	Ceiba pentandra
Cerezo	Red manjack	Cordia collococca
Cerezo, Caracolillo (cotorrerillo)	Wild honeytree	Casearia decandra Jacq.
China dulce	Sweet orange	Citrus sinensis (L) Osbeck
Ciruela del país (jobillo)	Purple mombin	Spondias purpurea L.
Cóbana negra		Stahlia monosperma
Cojoba		Pithecellobium arboreum
Corazón	Custard apple	Annona reticulata L.
Corazón cimarrón	Pond apple	Annona glabra
Corcho	Black mampoo	Guapira fragans
Crotón lobulado	Lobed croton	Croton lobatus L.
Cupey	Balsam fig	Clusia rosea
Desmanto		Desmanthus spp
Emajagua	Sea hibiscus	Hibiscus tiliaceus L
Escoba blanca (majagua)	Commoc wireweed	Sida acuta Burm. f
Espino rubial	Prickle yellow	Zanthoxylum caribaeum Lam.

Shrub-like, shrubs and tre	es (cont)	
Spanish name	English name	Scientific name
Espinosa, Ayua	Prickle ash	Zanthoxylum martinicense
Flamboyán	Flame tree	Delonix regia
Fresa de montaña	Wild rasperry	Rubus rosifolius Smith
Gandul	Pigeon pea	Cajanus cajan Huth
Garrocho	Swizzle-stick tree	Quararibea turbinata
Granadillo	Yellow sanders	Buchenavia tetraphylla
Guaba		Inga vera
Guácima	Bastard cedar	Guazuma ulmifolia
Guamá	Pomshock	Inga lauriana
Guama venezolano		Inga quaternata
Guanábana	Soursop	Annona muricata L.
Guara		Cupania americana
Guaraguo	Musk wood	Guarea guidonia
Guayacán	Lignum-vitae	Guaiacum officinale
Guayacán blanco	Hollywood lignum-vitae	Guaiacum sanctum
Hedionda	Coffee senna	Senna occidentalis L.
Hicaco, Icaco	Coco plum	Chrysobalanus icaco L.
Higo silvestre	Common fig	Ficus carica L
Higüero	Calabash	Crescentia cujete
Higuillo de hoja menuda		Piper aduncum L.
Jaboncillo	Wingleaf soapberry	Sapindus saponaria
Jagua	Genip	Genipa americana L.
Jagüey blanco	r P	Ficus trigonata
Jagüey macho	Wild bayantree	Ficus citrifolia
Jagüey prieto	<u>, </u>	Ficus sintensii
Jobo (jobo gusanero)	Yellow mombin	Spondias mombin L.
Laurel amarillo		Nectandra turbacensis
Laurel avispillo (bobo)		Cinnamomum elongatum
Laurel de paloma		Ocotea portoricensis Mez.
Laurel espada		Ocotea floribunda
Laurel geo	Loblolly sweetwood	Ocotea leucoxylon
Maga	Maga wood	Thespesia gandiflora
Mamey	Mammee apple	Mammea americana L.
Mangó	Mango tree	Mangifera indica L.
Manzanillo	Manchineel	Hippomane mancinella
María		Calophyllum calaba
Maricao (doncella)		Byrsonima spicta
Masa		Tetragastris balsamifera
Mata de mariposa		Gonzalagunia hirsuta (Jack)
Mierda de gallina	Caribbean myrtlecroton	Bernardia dichotoma (Willd.).
Moca	Cabbage bark	Andira inermis
Moral (Moral de paz)	White/Mucilage manjack	Cordia sulcata DC
Moralón	<u> </u>	Coccoloba pubescens
Muñeco/Capá (cimarrón)	Manjack	Cordia borinquensis Urban
Murta	···	Eugenia sintenisii Kiaersk

Shrub-like, shrubs and trees	(cont.)	
Spanish name	English name	Scientific name
Naranja	Sour orange	Citrus aurantium L.
Nigua	Chiggery grapes	Tournefortia hirsutissima L
Noni, Gardenia hedionda	Indian mulberry	Morinda citrifolia
Ortegón	a.aa.a.ay	Coccoloba rugosa
Pajuil	Cashew nut	Anacardium occidentale L.
Palma de abanico	Broom teyer	Coccothrinax alta
Palma de Iluvia	2.00	Gaussia attenuta
Palma de sierra	Sierra palm	Prestoea montana
Palma real	Puerto Rico royal palm	Roystonea borinquena O. F.
	r done rate reyal pallir	Cook.
Palma sombrero	Hat palm	Sabal causiarum
Palo blanco	Varital	Drypetes glauca Vahl.
Palo de Jazmín		Styrax portoricensis
Palo de paloma (coral, manto)	Poison cherry, (wild cherry)	Crossopetalum rhacoma Crantz
Palo de Perico (basora prieta	Black sage	Cranz Cordia polycephala (Lam.)
saraguaso)	Didok sago	Cordia porycopriala (Lain.)
Palo de violeta	Violet tree	Polygala cowellii
Palo moro (bálsamo)	Seminole balsamo	Psychotria nervosa
Panapén	Breadfruit	Artocarpus altilis
Pazote	Sowbane (wormseed)	Chenopodium ambrosioides L.
Péndula (Higuerillo, palo de	Florida fiddlewood (Pasture	Citharexylum fruticosum L
guitarra)	fiddlewood)	Characogram madeceam E
Pollo		Dendropanax arboreus
Pomarrosa	Rose apple, plum rose	Syzygium jambos
Rabo ratón	Wild cherry	Casearia arborea
Roble blanco	White cedar	Tabebuia heterophylla
Roble Cimarrón		Tabebuia haemantha
Roble de guayo (Palo de vaca)	Bodywood	Bourreria succulenta Jacq.
Sabinón	, 200,	Croton poecilantus
Saúco cimarrón (Avispillo)	Muttonwood	Turpinia occidentalis (Sw)
Sebucán, dildo	Royen's tree cactus	Pilosocereus royenii (L.)
Tabonuco	Candlewood	Dacryodes excelsa Vahl.
Tachuelo	Fustic	Pictetia aculeata
Tortugo amarillo	False mastic	Mastichodendron
i ortugo umanino		foetidissimum
Tuatúa (higuerreta cimarrona)	Bellyache bush	Jatropha gossypiifolia L.
Ucar	Black olive	Bucida buceras
Uva de Playa	Seaside grape	Coccoloba uvifera (L.) L.
Yagrumo hembra	Trumpet tree	Cecropia schreberiana
Yagrumo macho	Matchwood	Schefflera morototoni
Yerba capitana	Bertero's mistletoe	Phoradendron dichotomum
Yuca	Cassava	Manihot esculenta Crantz
Zarcilla	Leadtree	Leucaena leucocephala
Zarzabacoa enana	Pencil flower/cheesytoes	Stylosanthes hamata
Zarzamora	Sawtooth blackberry	Rubus argutus Link.

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Table 2. Seeding Rates for Grasses, Forbs and Legumes

Mixture most benefical for wildlife		Origen	Seeding rate (lbs/acre) Mix species				
Grasses				2/3	4	5	
Grama colorada	Broadleaf carpetgrass	Axonopus compressus	N/N	3	2	6	
Pajón	Railroad- track grass	Dichanthium annulatum	N/N	5	5	1	
Yerba bahía	Bahia grass	Paspalum notatum	N/N	20	10	3	
Yerba Bermuda	Bermuda grass	Cynodon dactylon	I	40	20	10	
Yerba Buffel	Buffel grass	Pennisetum ciliare	I	5	5	6	
Yerba de Guinea	Guinea grass	Urochloa maxima	N/N	20	10	3	
Yerba Johnson	Johnson grass	Sorghum halepense	I	5	5	3	
Legumes							
Conchitas	Butterfly pea	Clitoria ternatea	I	4	2	2	
Crotalaria	Sunn hemp	Crotalaria juncea	I	4	2	2	
Desmanto		Desmanthus spp	I	4	2	2	
Flor de conchitas	Centro, butterfly-pea	Centrosema pubescens	N	2	2	2	
Zarcilla	Leadtree	Leucaena leucocephala	I	4	2	2	
Stylo	Pencil flower/cheesytoes	Stylosanthes hamata	N	4	2	2	
	Purple bushbean	Macroptilium atropurpureum	I	4	2	2	

N/N - Native/Naturalized

I - Introduced

Table 3. Spanish, English and Scientific Names of Birds

Spanish name	English name	Scientific name
Bien-Te-Veo de P. R.	Puerto Rican vireo	Vireo latimeri
Bobito	Lasser Antllean Pewee	Contopus latirostris
Calandria	Greater oriole	Icterus dominicensis
Carpintero de P. R.	Puerto Rican woodpecker	Melanerpes portoricensis
Clérigo	Loggerhead kingbird	Tyrannus caudifasciatus
Comeñame	Puerto Rican bullfinch	Loxigilla portoricensis
Cotorra de Puerto Rico	Puerto Rican parrot	Amazona vittata
Diablito	Hooded mannikin	Lonchura cucullata
Gorrión chicharra	Grasshopper sparrow	Ammodramus savannarum
Gorrión negro (Chamorro		
negro)	Carib black-faced grassquit	Tiaris bicolor
Guabairo	Puerton Rican Nightjat	Caprimulgus noctitherus
Jilguero (Canario del país)	Antillean euphonia	Euphonia musica
Judío	Smooth-billed ani	Crotophaga ani
Juí	Puerto Rican flycatcher	Myiarchus antillarum
Julián Chiví (Cien chavos por	Black-Whiskered vireo	Vireo altiloquus altiloquus
el)		
Llorosa de P.R.	Puerto Rican tanager	Nesospingus speculifrus
	Puerto Rican Yellow-shouldered	7 3 1
Mariquita de P. R.	blackbird	Agelaius xanthomus xanthomus
Martinete	Green Heron	Butorides virescens maculatus
Mozambique de P.R., Chango	Greater antillean grackle	Quiscalus niger
Múcaro Común	Puerto Rican Screech-Owl	Octus nudipes
Pájaro Bobo Mayor	Puerto Rican Lizard-Cuckoo	Saurothera vieilloti
Paloma cabeciblanca	White-crowned pigeon	Columba leucocephala
Paloma común, Paloma casera		Columba livia
Paloma turca	Scaly-naped pigeon	Columba squamosa
Perdiz (Paloma perdiz rojiza)	Ruddy quail-dove	Geotrygon montana
Pitirre	Gray kingbird	Tyrannus dominicensis dominicensis
Playero Sabanero	Antillean killdeer	Charadrius vociferus
Reina Mora de Puerto Rico	Puerto Rican stripe-headed tanager	Spindalis zena portoricensis
Reinita de Bosque enano	Elfin Woods Warber	Dendroica angelae
Reinita de Puerto Rico	Bananaquit	Coereba flaveola portoricensis
Reinita gusanera	Worm-eating Warbler	Helmitheros vermivorus
Reinita Mariposera	Adelaide's Warbler	Dendrocygna adelaidae
Reinita pechidorada	Northern Parula	Parula americana
Reinita trepadora	Black-and-White Warbler	Mniotilta varia
Rolita de Puerto Rico	Common ground-dove	Columbina passeriana
Ruiseñor	Northern mockingbird	Mimus polyglottos
San Pedrito de Puerto Rico	Puerto Rican Tody	Todus mexicanus
Tórtola cardosantera	Zenaida dove	Zenaida aurita
Tórtola rabilarga	Mourning dove	Zenaida macroura
Turpial	Troupial	Icterus icterus
Veterano	Orange-cheeked waxbill	Estrilda melpoda
	J. S. JO OHOONOU HUNDH	

Spanish name	English name	Scientific name
Zorzal de patas coloradas	Red-legged thrush	Turdus plumbeus
(Zorzal azul)		
Zorzal pardo	Pearly-eyed thrasher	Margarops fuscatus
Zumbador verde de P.R.	Green mango	Anthracothorax viridis
Zumbadorcito de P.R.	Puerto Rican Emerald	Chlorostibon maugaeus

Sources:

Puerto Rico's Birds in Photographs, Mark W. Oberle. A Guide to the Birds of Puerto Rico and Virgin Islands, Herbert A. Raffaele. Aves de Puerto Rico, Virgilio Biaggi.

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Insects	Cup of mosses, lichens and other fine materials, with thin bark camouflaging the exterior.	Forests of moderate elevation, coffee plantations.	Bobito
Insects and seeds.	Cup nest in mangroves, palms, and other trees or in a tree cavity or nest box.	Open, dry forests and mangroves of southwestern Puerto Rico.	Mariquita de Puerto Rico
Berries and fruits such as figs, blackberries and Cecropia fruits, but will consume some aphids and other insects.	Ranging from a small cup, to bulky, deeper nests.	Forests, suburban gardens, and plantations with fruiting plants	Reina Mora*
Insects, (moths, caterpillars, beetles, grasshoppers, ants), spiders, snails, and lizards) fruit and some seeds.	Cup-shaped made of roots, vines and strands of fungus, lined with strips of palm leaves.	Mountain forests, shade coffee plantations, and gardens at higher elevations.	Llorosa de P.R.
Insects	Unknown	Mountain cloud forest and lower montane forest from 370-1030 meters in elevation.	Reinita del Bosque Enano
Lantern flies, grasshoppers, caterpillars, stink bugs, flies, weevils, other beetles, spiders, and rarely small frogs.	Finely woven cup-shaped located in a tree or dense thicket, cup placed 3-20 feet high in a tree or shrub.	Dry, lowland forests and some moist Finely woven cup-shaped forest areas, with tangles of vines and thickets, especially in the southwest and the northern limestone hills.	Reinita Mariposera*
Insects, including katydids, grasshoppers, crickets, earwigs, dragonflies, flies (Diptera), and beetles (Coleoptera), as well as spiders, and occasional small lizards and fruits.	Excavates a curved burrow with a terminal nest chamber into an earth bank.	Forest types with dense thickets and Excavates a curved burrow with a vines, as long as there are earthen banks or road cuts for nesting, arid area in the south.	San Pedrito de Puerto Rico
Feeding	Nest	Habitat	Spanish

Sources: Puerto Rico's Birds in Photographs, Mark W. Oberle A Guide to the Birds of Puerto Rico and Virgin Islands, Herbert A. Raffaele Aves de Puerto Rico, Virgilio Biaggi.

Table 5. Endemic Birds Nesting Period

Table 5. Endemic Birds Nesting Period												
Month												
Spanish name	J	F	М	Α	М	J	J	Α	S	Ο	N	D
Bien-Te-Veo de Puerto Rico				•	•	•						
Bobito*				•	•							
Carpintero de Puerto Rico	•	•	•	•								
Come ñame de Puerto Rico		•	•	•	•	•						
Cotorra de Puerto Rico		•	•	•	•	•						
Guabairo pequeño		•	•	•	•	•	•					
Juí		•	•	•	•	•	•					
Llorosa de Puerto Rico	•	•	•	•	•	•	•	•				
Mariquita de Puerto Rico					•	•						
Múcaro Común				•	•	•						
Pájaro Bobo Mayor		•	•	•								
Reina Mora*	•	•	•		•	•						
Reinita del Bosque Enano	•	•	•	•								•
Reinita Mariposera*			•	•	•	•						
San Pedrito de Puerto Rico		•	•	•	•							
Zumbador verde de Puerto Rico	•	•								•	•	•
Zumbadorcito de Puerto Rico		•	•	•	•							

Sources:

Puerto Rico's Birds in Photographs, Mark W. Oberle

A Guide to the Birds of Puerto Rico and Virgin Islands, Herbert A. Raffaele

Aves de Puerto Rico, Virgilio Biaggi